

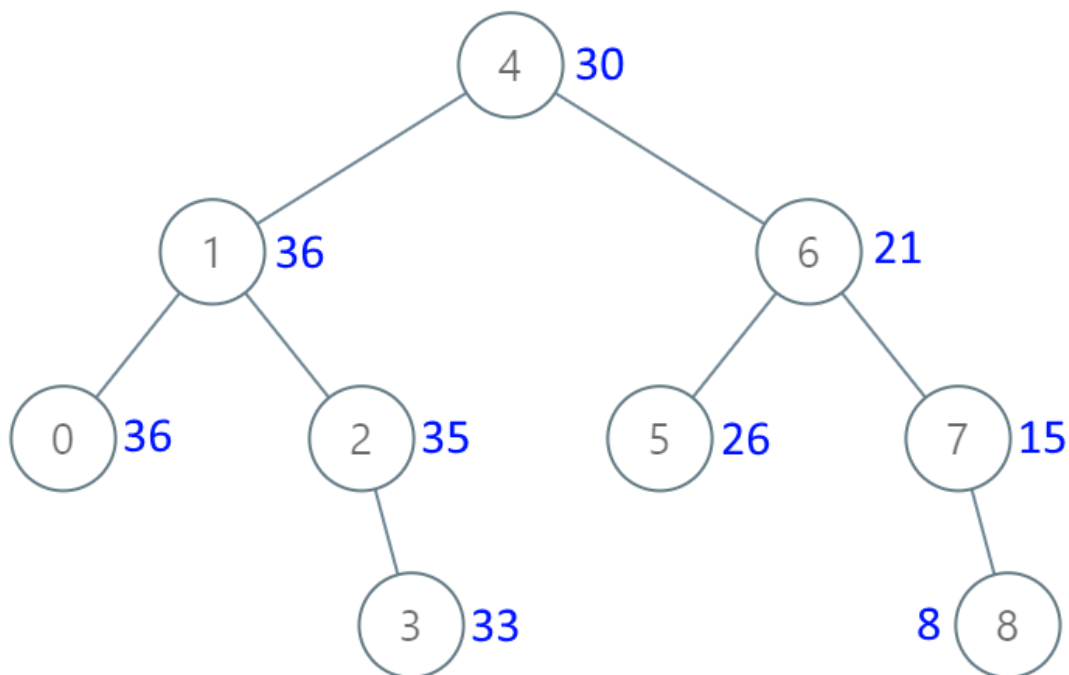
Convert BST to Greater Tree [\(View\)](#)

Given the `root` of a Binary Search Tree (BST), convert it to a Greater Tree such that every key of the original BST is changed to the original key plus the sum of all keys greater than the original key in BST.

As a reminder, a *binary search tree* is a tree that satisfies these constraints:

- The left subtree of a node contains only nodes with keys **less than** the node's key.
- The right subtree of a node contains only nodes with keys **greater than** the node's key.
- Both the left and right subtrees must also be binary search trees.

Example 1:



Input: `root = [4,1,6,0,2,5,7,null,null,null,3,null,null,null,8]`

Output: `[30,36,21,36,35,26,15,null,null,null,33,null,null,null,8]`

Example 2:

Input: `root = [0,null,1]`

Output: `[1,null,1]`

Constraints:

- The number of nodes in the tree is in the range $[0, 10^4]$.
- $-10^4 \leq \text{Node.val} \leq 10^4$
- All the values in the tree are **unique**.
- `root` is guaranteed to be a valid binary search tree.